

# Safety Data Sheet



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 1/22/2015 Revision date: 9/16/2022 Supersedes version of: 1/22/2015 Version: 2.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture Product name : Lockfast R20

UFI : 3220-108E-Q00E-9K40

Type of product : adhesives

Product group Adhesives, sealants

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Intended for general public

Main use category : Industrial use, Professional use, Consumer use

Function or use category : Adhesives, binding agents

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

#### Cyanotec Ltd

Bay 2 Building 62, Third Avenue, Pensnett Trading Estate, Kingswinford, West Midlands DY6 7XT United Kingdom

Tel: +44 (0)1384 294753 Email: sales@cyanotec.com

### 1.4. Emergency telephone number

Emergency number : +44 (0) 1384 294753 (Monday - Thursday 9:00 to 17:00)

IN CASE OF TOXIC OR TRANSPORT EMERGENCY:

National Chemical Emergency Centre: Telephone 01865 407333

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	Only for healthcare professionals

#### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 2 H319 Skin sensitisation, Category 1 H317 Specific target organ toxicity - Single exposure, Category 3, Respiratory H335

tract irritation

H411 Hazardous to the aquatic environment - Chronic Hazard, Category 2

Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

May cause respiratory irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS07

GHS09

Signal word (CLP) : Warning

Contains : HYDROQUINONE MONOMETHYL ETHER, 1,1'-(METHYLENEDI-P-PHENYLENE)

BISMALEIMIDE, 2,2'(4-METHYLPHENYLIMINO)DIETHANOL, 1-ACETYL-2-

PHENYLHYDRAZINE, CUMENE HYDROPEROXIDE

Hazard statements (CLP) : H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P312 - Call a POISON CENTRE or doctor if you feel unwell.

P321 - Specific treatment (see supplemental first aid instruction on this label). P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P391 - Collect spillage.

EUH-statements : EUH208 - Contains HYDROQUINONE MONOMETHYL ETHER(150-76-5), 1,1'-

(METHYLENEDI-P-PHENYLENE) BISMALEIMIDE(13676-54-5), 2,2'(4-METHYLPHENYLIMINO)DIETHANOL(3077-12-1), 1-ACETYL-2-PHENYLHYDRAZINE(114-83-0). May produce an allergic reaction.

#### 2.3. Other hazards

Other hazards which do not result in classification : None under normal conditions.

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,1'-(METHYLENEDI-P-PHENYLENE) BISMALEIMIDE	CAS-No.: 13676-54-5 EC-No.: 237-163-4	10 – 25	Acute Tox. 3 (Inhalation), H331 Skin Sens. 1, H317 Aquatic Chronic 1, H410
CUMENE HYDROPEROXIDE	CAS-No.: 80-15-9 EC-No.: 201-254-7 EC Index-No.: 617-002-00-8 REACH-no: 01-2119475796-	0.5 – 2.5	Org. Perox. E, H242 Acute Tox. 3 (Inhalation), H331 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 STOT RE 2, H373 Skin Corr. 1B, H314 Aquatic Chronic 2, H411

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
HYDROQUINONE MONOMETHYL ETHER	CAS-No.: 150-76-5 EC-No.: 205-769-8 EC Index-No.: 604-044-00-7 REACH-no: 01-2119541813-	0.1 – 1	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1, H317
N,N-DIMETHYL-P-TOLUIDINE	CAS-No.: 99-97-8 EC-No.: 202-805-4 EC Index-No.: 612-056-00-9 REACH-no: 01-2119937766- 23	0.1 – 1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT RE 2, H373 Aquatic Chronic 3, H412
2,2'(4-METHYLPHENYLIMINO)DIETHANOL	CAS-No.: 3077-12-1 EC-No.: 221-359-1	0.1 – 1	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412
1-ACETYL-2-PHENYLHYDRAZINE	CAS-No.: 114-83-0	0.1 – 1	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335

Specific concentration limits:					
Name	Product identifier	Specific concentration limits			
CUMENE HYDROPEROXIDE	CAS-No.: 80-15-9 EC-No.: 201-254-7 EC Index-No.: 617-002-00-8 REACH-no: 01-2119475796-	( 0 <c 10)="" 3,="" <="" h335<br="" se="" stot="">( 1 ≤C &lt; 3) Eye Irrit. 2, H319 ( 3 ≤C &lt; 10) Skin Irrit. 2, H315 ( 3 ≤C &lt; 10) Eye Dam. 1, H318 ( 10 ≤C ≤ 100) Skin Corr. 1B, H314</c>			

Full text of H- and EUH-statements: see section 16

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a

doctor if you feel unwell.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash

occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a water jet since it may cause the fire to spread.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Clean up any spills as soon as possible, using an absorbent material to collect it.

### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact

with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Ventilate area. Prevent from entering sewers, basements and workpits, or any place where

its accumulation can be dangerous.

### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Avoid breathing

dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal

protective equipment.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash

contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Incompatible products : Oxidizing agent.

#### 7.3. Specific end use(s)

adhesives.

9/16/2022 (Revision date) EN (English) 4/18

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### 8.1.1 National occupational exposure and biological limit values

HYDROQUINONE MONOMETHYL ETHER (150-75-15) Bolgium - Occupational Exposure Limits  Local name 4 Methoxyphenol # 4-Methoxyfenol Regulatory reference 5 mg/m² Regulatory reference 4 Methoxyphenol (4-Hydroxyanisol)  Demark - Occupational Exposure Limits  Local name 4 Methoxyphenol (4-Hydroxyanisol) Regulatory reference 5 mg/m² Regulatory reference 6 mg/m² Regulatory reference 6 mg/m² Regulatory reference 7 mg/m² Regulatory reference 8 mg/m² Regulatory reference 8 mg/m² Regulatory reference 9 mg/m² Remark 8 mg/m² Remark 9 valeur recommandees/admisee 1 mg/m² Regulatory reference 2 mg/m² Regulatory reference 2 mg/m² Regulatory reference 3 mg/m² Regulatory reference 1 mg/m² Regulatory reference 2 mg/m² Regulatory reference 3 mg/m² Regulatory reference 2 mg/m² Regulatory reference 3 mg/m² Regulatory reference 3 mg/m² Regulatory reference 3 mg/m² Regulatory reference 3 mg/m² Regulatory reference 4 mg/m² Regulatory reference 3 mg/m² Regulatory reference 4 mg/m² Regulatory reference 5 mg/m² Regulatory reference 5 mg/m² Regulatory reference 6 mg/m² Regulatory reference 6 mg/m² Regulatory reference 6 mg/m² Regulatory reference 7 mg/m² Regulatory reference 7 mg/m² Regulatory reference 8 mg/m² Regulatory reference 9 mg/m² Regulato	o. 1.1 National occupational exposure and biological				
Local name	HYDROQUINONE MONOMETHYL ETHER (150	l-76-5)			
OEL TWA         5 mg/m²           Regulatory reference         Koninklijk besluit/Arrête royal 11/05/2021           Denmark - Occupational Exposure Limits           Local name         4-Methoxyphenol (4-Hydroxyanisol)           OEL TWA [1]         5 mg/m²           Regulatory reference         BEK nr 2203 af 29. november 2021           France - Occupational Exposure Limits         Local name           VME (OEL TWA)         5 mg/m²           Regulatory reference         Circulaire du Ministère du travail (réf.: INRS ED 984, 2018)           Greece - Occupational Exposure Limits         Circulaire du Ministère du travail (réf.: INRS ED 984, 2018)           Greece - Occupational Exposure Limits         Méθοξυφανόλη, 4-           Cet. TWA         5 mg/m²           Regulatory reference         Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους           Ireland - Occupational Exposure Limits         Local name         4-Methoxyphenol [Mequinol]           OEL TWA [1]         5 mg/m²         Regulatory reference         Chemical Agents Code of Practice 2021           Polard - Occupational Exposure Limits         Local name         4-Metoksyfenol           NDS (OEL TWA)         5 mg/m²         Regulatory reference         0 chemical Agents Code of Practice 2021           Portugal - Oc	Belgium - Occupational Exposure Limits				
Regulatory reference         Korinklijk besluit/Arrâté royal 11/05/2021           Denmark - Occupational Exposure Limits           Local name         4-Methoxyphenol (4-Hydroxyanisol)           OEL TWA [1]         5 mg/m²           Regulatory reference         BEK nr 2203 af 29. november 2021           France - Occupational Exposure Limits         Local name           VME (OEL TWA)         5 mg/m²           Remark         Valeurs recommandées/admises           Regulatory reference         Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)           Greece - Occupational Exposure Limits         Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)           Core name         Me®oţivparvôx n. 4-           Cell TWA         5 mg/m²           Regulatory reference         1 n. 9. 90/1999 - Προστασία της μγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκετα της εργασίας τους           Iroland - Occupational Exposure Limits         Cocal name         4-Methoxyphenol [Mequinol]           OEL TWA [1]         5 mg/m²           Regulatory reference         Chemical Agents Code of Practice 2021           Poland - Occupational Exposure Limits         Sig/m²           Local name         4-Metoksyfenol           NDS (OEL TWA)         5 mg/m²           Regulatory reference         2 k/dr (Ozn	Local name	4-Méthoxyphénol # 4-Methoxyfenol			
Denmark - Occupational Exposure Limits           Local name         4-Methoxyphenol (4-Hydroxyanisol)           OEL TWA [1]         5 mg/m³           Regulatory reference         BEK nr 2203 af 29. november 2021           France - Occupational Exposure Limits         - Methoxyphenol           Local name         4-Méthoxyphenol           WME (OEL TWA)         5 mg/m³           Remark         Valeurs recommandees/admises           Regulatory reference         Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)           Grecce - Occupational Exposure Limits         - Me8o (upanvöxn, 4-           Local name         Mc8o (upanvöxn, 4-           OEL TWA         5 mg/m²           Regulatory reference         1,2 80/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους τους εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους τους εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους Εντίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους Εντίθενται σε ορισμένους τους εκτίθενται σε ορισμένους τους εκτίθενται σε ορισμένους τους εκτίθενται σε ορισμένος τους εκτίθενται σε ορισμένους τους εκτίθενται σε ορισμένος τους εκτίθενται σε ορισμένα	OEL TWA	5 mg/m³			
Local name         4-Methoxyphenol (4-Hydroxyanisol)           OEL TWA [1]         5 mg/m²           Regulatory reference         BEK nr 2203 af 29. november 2021           France - Occupational Exposure Limits           Local name         4-Méthoxyphénol           VME (OEL TWA)         5 mg/m²           Regulatory reference         Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)           Greece - Occupational Exposure Limits         4 Méthoxyphenol           Local name         Métocuparvòλη, 4-           OEL TWA         5 mg/m²           Regulatory reference         π. Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους           Ireland - Occupational Exposure Limits         - Methoxyphenol [Mequinol]           OEL TWA [1]         5 mg/m²           Regulatory reference         Chemical Agents Code of Practice 2021           Poland - Occupational Exposure Limits         - Compational Exposure Limits           Local name         4-Metoksyfenol           NDS (OEL TWA)         5 mg/m²           Regulatory reference         D. U. 2018 poz. 1286           Portugal - Occupational Exposure Limits         - C. Quality poz. 1286           Portugal - Occupational Exposure Limits         - C. Quality poz. 1286	Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021			
OEL TWA [1]         5 mg/m³           Regulatory reference         BEK nr 2203 af 29. november 2021           France - Occupational Exposure Limits           Local name         4-Méthoxyphénol           VME (OEL TWA)         5 mg/m³           Remark         Valeurs recommandées/admises           Regulatory reference         Circulaire du Ministère du travail (ref.: INRS ED 984, 2016)           Greece - Occupational Exposure Limits           Local name         MeBoξωφαινόλη, 4-           OEL TWA         5 mg/m³           Regulatory reference         Π.Δ. 90/1999 - Προστασία της υχείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους           Iretand - Occupational Exposure Limits         Local name           Local name         4-Methoxyphenol [Mequinol]           OEL TWA [1]         5 mg/m³           Regulatory reference         Chemical Agents Code of Practice 2021           Poland - Occupational Exposure Limits           Local name         4-Metoksyfenol           NDS (OEL TWA)         5 mg/m³           Regulatory reference         2 Metoksyfenol           NDS (OEL TWA)         5 mg/m³           Regulatory reference         4 Metoksyfenol           Portugal - Occupational Exposure Limits         L	Denmark - Occupational Exposure Limits				
Regulatory reference         BEK nr 2203 af 29. november 2021           France - Occupational Exposure Limits           Local name         4-Méthoxyphénol           VME (OEL TWA)         5 mg/m²           Remark         Valeurs recommandées/admises           Regulatory reference         Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)           Greece - Occupational Exposure Limits         Mé00cψαρινόλη, 4-           Coel name         Mé00cψαρινόλη, 4-           Cel TWA         5 mg/m²           Regulatory reference         Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγαντες κατά τη διάρκεια της εργασίας τους           Ireland - Occupational Exposure Limits         Coel TWA (1)           Local name         4-Methoxyphenol [Mequinol]           OEL TWA (1)         5 mg/m²           Regulatory reference         4-Metoksyfenol           Poland - Occupational Exposure Limits         4-Metoksyfenol           NDS (OEL TWA)         5 mg/m²           Remark         Skóra (Oznakowanie substancji notacją "skóra" oznaczą, że wchianianie substancji przez skórą może być tak samo istotne jak przy narażeniu drogą oddechową).           Regulatory reference         4-Metoks/fenol           OEL TWA         5 mg/m²           Regulatory reference         4-Metokarienol	Local name	4-Methoxyphenol (4-Hydroxyanisol)			
France - Occupational Exposure Limits  Local name	OEL TWA [1]	5 mg/m³			
Local name         4-Méthoxyphénol           VME (OEL TWA)         5 mg/m²           Remark         Valeurs recommandées/admises           Regulatory reference         Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)           Greece - Occupational Exposure Limits           Local name         Meθοξυφαινόλη, 4-           OEL TWA         5 mg/m³           Regulatory reference         "πιω. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χυπικος παράγοντες κατά τη διάρκεια της εργασίας τους           Ireland - Occupational Exposure Limits           Local name         4-Methoxyphenol [Mequinol]           OEL TWA [1]         5 mg/m²           Regulatory reference         Chemical Agents Code of Practice 2021           Poland - Occupational Exposure Limits           Local name         4-Metoksyfenol           NDS (OEL TWA)         5 mg/m³           Remark         Skóra (Oznakowanie substancji notacją "skóra" oznacza, że wchlanianie substancji przez skóre może być tak samo istotne jak przy narażeniu drogą oddechową).           Regulatory reference         Dz. U. 2018 poz. 1286           Portugal - Occupational Exposure Limits           Local name         4-Metoxifenol           OEL TWA         5 mg/m³           Regulatory reference         Norma Portuguesa NP	Regulatory reference	BEK nr 2203 af 29. november 2021			
VME (OEL TWA)         5 mg/m³           Remark         Valeurs recommandées/admises           Regulatory reference         Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)           Grecce - Occupational Exposure Limits           Local name         Meθοξυφαινόλη, 4-           OEL TWA         5 mg/m³           Regulatory reference         Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους           Ireland - Occupational Exposure Limits           Local name         4-Methoxyphenol [Mequinol]           OEL TWA [1]         5 mg/m³           Regulatory reference         Chemical Agents Code of Practice 2021           Poland - Occupational Exposure Limits           Local name         4-Metoksyfenol           DS (OEL TWA)         5 mg/m³           Remark         Skóra (Oznakowanie substancji notacją "skóra" oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).           Regulatory reference         Dz. U. 2018 poz. 1286           Portugal - Occupational Exposure Limits           Local name         4-Metoxifenol           OEL TWA         5 mg/m³           Regulatory reference         Norma Portuguesa NP 1796:2014 <td <="" colspan="2" td=""><td>France - Occupational Exposure Limits</td><td></td></td>	<td>France - Occupational Exposure Limits</td> <td></td>		France - Occupational Exposure Limits		
Remark         Valeurs recommandées/admises           Regulatory reference         Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)           Greece - Occupational Exposure Limits           Local name         Μεθοξψφαινόλη, 4-           OEL TWA         5 mg/m³           Regulatory reference         Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους           Ireland - Occupational Exposure Limits         4-Methoxyphenol [Mequinol]           DEL TWA [1]         5 mg/m³           Regulatory reference         Chemical Agents Code of Practice 2021           Poland - Occupational Exposure Limits         4-Metoksyfenol           Local name         4-Metoksyfenol           NDS (OEL TWA)         5 mg/m³           Remark         Skóra (Oznakowanie substancji notacją "skóra" oznacza, że wchlanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).           Regulatory reference         Dz. U. 2018 poz. 1286           Portugal - Occupational Exposure Limits         4-Metoxifenol           Local name         4-Metoxifenol           OEL TWA         5 mg/m³           Regulatory reference         Norma Portuguesa NP 1796:2014           Stovenia - Occupational Exposure Limits           Local name         mekinol (4-metoksifenol)<	Local name	4-Méthoxyphénol			
Regulatory reference Circularie du Ministère du travail (réf.: INRS ED 984, 2016)  Grecce - Occupational Exposure Limits  Local name Mεθοξυφαινόλη, 4-  OEL TWA 5 mg/m³  Regulatory reference Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους  Ireland - Occupational Exposure Limits  Local name 4-Methoxyphenol [Mequinol]  OEL TWA [1] 5 mg/m³  Regulatory reference Chemical Agents Code of Practice 2021  Poland - Occupational Exposure Limits  Local name 4-Metoksyfenol  NDS (OEL TWA) 5 mg/m³  Remark 4-Metoksyfenol  NDS (OEL TWA) 5 mg/m³  Regulatory reference pty clark samo istotne jak przy narażeniu drogą oddechową).  Regulatory reference pty clark samo istotne jak przy narażeniu drogą oddechową).  Regulatory reference 4-Metoxifenol  OEL TWA 5 mg/m³  Regulatory reference 1-Metoxifenol  OEL TWA 5 mg/m³	VME (OEL TWA)	5 mg/m³			
Greece - Occupational Exposure Limits           Local name         Μεθοξυφαινόλη, 4-           OEL TWA         5 mg/m³           Regulatory reference         Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους           Ireland - Occupational Exposure Limits           Local name         4-Methoxyphenol [Mequinol]           OEL TWA [1]         5 mg/m³           Regulatory reference         Chemical Agents Code of Practice 2021           Poland - Occupational Exposure Limits           Local name         4-Metoksyfenol           NDS (OEL TWA)         5 mg/m³           Remark         Skóra (Oznakowanie substancji notacją "skóra" oznacza, że wchlanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).           Regulatory reference         Dz. U. 2018 poz. 1286           Portugal - Occupational Exposure Limits           Local name         4-Metoxifenol           OEL TWA         5 mg/m³           Regulatory reference         Norma Portuguesa NP 1796:2014           Slovenia - Occupational Exposure Limits           Local name         mekinol (4-metoksifenol)           OEL TWA         5 mg/m³	Remark	Valeurs recommandées/admises			
Local nameΜεθοξυφαινόλη, 4-OEL TWA5 mg/m³Regulatory referenceΠ.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τουςIreland - Occupational Exposure LimitsLocal name4-Methoxyphenol [Mequinol]OEL TWA [1]5 mg/m³Regulatory referenceChemical Agents Code of Practice 2021Poland - Occupational Exposure LimitsLocal name4-MetoksyfenolNDS (OEL TWA)5 mg/m³RemarkSkóra (Oznakowanie substancji notacją "skóra" oznacza, że wchlanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).Regulatory referenceDz. U. 2018 poz. 1286Portugal - Occupational Exposure LimitsLocal name4-MetoxifenolOEL TWA5 mg/m³Regulatory referenceNorma Portuguesa NP 1796:2014Slovenia - Occupational Exposure LimitsLocal namemekinol (4-metoksifenol)OEL TWA5 mg/m³	Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)			
OEL TWA       5 mg/m³         Regulatory reference       Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους         Ireland - Occupational Exposure Limits         Local name       4-Methoxyphenol [Mequinol]         OEL TWA [1]       5 mg/m³         Regulatory reference       Chemical Agents Code of Practice 2021         Poland - Occupational Exposure Limits         Local name       4-Metoksyfenol         NDS (OEL TWA)       5 mg/m³         Remark       Skóra (Oznakowanie substancji notacją "skóra" oznacza, że wchlanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).         Regulatory reference       Dz. U. 2018 poz. 1286         Portugal - Occupational Exposure Limits         Local name       4-Metoxifenol         OEL TWA       5 mg/m³         Regulatory reference       Norma Portuguesa NP 1796:2014         Slovenia - Occupational Exposure Limits         Local name       mekinol (4-metoksifenol)         OEL TWA       5 mg/m³	Greece - Occupational Exposure Limits				
Regulatory reference  Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους  Ireland - Occupational Exposure Limits  Local name  4-Methoxyphenol [Mequinol]  OEL TWA [1]  5 mg/m³  Regulatory reference  Chemical Agents Code of Practice 2021  Poland - Occupational Exposure Limits  Local name  4-Metoksyfenol  NDS (OEL TWA)  5 mg/m³  Remark  Skóra (Oznakowanie substancji notacją "skóra" oznacza, że wchlanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).  Regulatory reference  Dz. U. 2018 poz. 1286  Portugal - Occupational Exposure Limits  Local name  4-Metoxifenol  OEL TWA  5 mg/m³  Regulatory reference  Norma Portuguesa NP 1796:2014  Slovenia - Occupational Exposure Limits  Local name  mekinol (4-metoksifenol)  OEL TWA  5 mg/m³	Local name	Μεθοξυφαινόλη, 4-			
Χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους           Ireland - Οccupational Exposure Limits           Local name         4-Methoxyphenol [Mequinol]           OEL TWA [1]         5 mg/m³           Regulatory reference         Chemical Agents Code of Practice 2021           Poland - Occupational Exposure Limits           Local name         4-Metoksyfenol           NDS (OEL TWA)         5 mg/m³           Remark         Skóra (Oznakowanie substancji notacją "skóra" oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).           Regulatory reference         Dz. U. 2018 poz. 1286           Portugal - Occupational Exposure Limits           Local name         4-Metoxifenol           OEL TWA         5 mg/m³           Regulatory reference         Norma Portuguesa NP 1796:2014           Slovenia - Occupational Exposure Limits           Local name         mekinol (4-metoksifenol)           OEL TWA         5 mg/m³	OEL TWA	5 mg/m³			
Local name 4-Methoxyphenol [Mequinol]  OEL TWA [1] 5 mg/m³  Regulatory reference Chemical Agents Code of Practice 2021  Poland - Occupational Exposure Limits  Local name 4-Metoksyfenol  NDS (OEL TWA) 5 mg/m³  Remark Skóra (Oznakowanie substancji notacją "skóra" oznacza, że wchlanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).  Regulatory reference Dz. U. 2018 poz. 1286  Portugal - Occupational Exposure Limits  Local name 4-Metoxifenol  OEL TWA 5 mg/m³  Regulatory reference Norma Portuguesa NP 1796:2014  Slovenia - Occupational Exposure Limits  Local name mekinol (4-metoksifenol)  OEL TWA 5 mg/m³	Regulatory reference				
DEL TWA [1] 5 mg/m³ Regulatory reference Chemical Agents Code of Practice 2021  Poland - Occupational Exposure Limits Local name 4-Metoksyfenol  NDS (OEL TWA) 5 mg/m³ Remark Skóra (Oznakowanie substancji notacją "skóra" oznacza, że wchlanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).  Regulatory reference Dz. U. 2018 poz. 1286  Portugal - Occupational Exposure Limits Local name 4-Metoxifenol  OEL TWA 5 mg/m³ Regulatory reference Norma Portuguesa NP 1796:2014  Slovenia - Occupational Exposure Limits Local name mekinol (4-metoksifenol)  OEL TWA 5 mg/m³	Ireland - Occupational Exposure Limits				
Regulatory reference Chemical Agents Code of Practice 2021  Poland - Occupational Exposure Limits  Local name 4-Metoksyfenol  NDS (OEL TWA) 5 mg/m³  Remark Skóra (Oznakowanie substancji notacją "skóra" oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).  Regulatory reference Dz. U. 2018 poz. 1286  Portugal - Occupational Exposure Limits  Local name 4-Metoxifenol  OEL TWA 5 mg/m³  Regulatory reference Norma Portuguesa NP 1796:2014  Slovenia - Occupational Exposure Limits  Local name mekinol (4-metoksifenol)  OEL TWA 5 mg/m³	Local name	4-Methoxyphenol [Mequinol]			
Poland - Occupational Exposure Limits  Local name	OEL TWA [1]	5 mg/m³			
Local name 4-Metoksyfenol 5 mg/m³  Remark Skóra (Oznakowanie substancji notacją "skóra" oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).  Regulatory reference Dz. U. 2018 poz. 1286  Portugal - Occupational Exposure Limits  Local name 4-Metoxifenol  OEL TWA 5 mg/m³  Regulatory reference Norma Portuguesa NP 1796:2014  Slovenia - Occupational Exposure Limits  Local name mekinol (4-metoksifenol)  OEL TWA 5 mg/m³	Regulatory reference	Chemical Agents Code of Practice 2021			
NDS (OEL TWA)  Remark  Skóra (Oznakowanie substancji notacją "skóra" oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).  Regulatory reference  Dz. U. 2018 poz. 1286  Portugal - Occupational Exposure Limits  Local name  4-Metoxifenol  OEL TWA  5 mg/m³  Regulatory reference  Norma Portuguesa NP 1796:2014  Slovenia - Occupational Exposure Limits  Local name  mekinol (4-metoksifenol)  OEL TWA  5 mg/m³	Poland - Occupational Exposure Limits				
Remark Skóra (Oznakowanie substancji notacją "skóra" oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).  Regulatory reference Dz. U. 2018 poz. 1286  Portugal - Occupational Exposure Limits  Local name 4-Metoxifenol  OEL TWA 5 mg/m³  Regulatory reference Norma Portuguesa NP 1796:2014  Slovenia - Occupational Exposure Limits  Local name mekinol (4-metoksifenol)  OEL TWA 5 mg/m³	Local name	4-Metoksyfenol			
skórę może być tak samo istotne jak przy narażeniu drogą oddechową).  Regulatory reference  Dz. U. 2018 poz. 1286  Portugal - Occupational Exposure Limits  Local name  4-Metoxifenol  5 mg/m³  Regulatory reference  Norma Portuguesa NP 1796:2014  Slovenia - Occupational Exposure Limits  Local name  mekinol (4-metoksifenol)  OEL TWA  5 mg/m³	NDS (OEL TWA)	5 mg/m³			
Portugal - Occupational Exposure Limits  Local name	Remark				
Local name 4-Metoxifenol 5 mg/m³  Regulatory reference Norma Portuguesa NP 1796:2014  Slovenia - Occupational Exposure Limits  Local name mekinol (4-metoksifenol)  OEL TWA 5 mg/m³	Regulatory reference	Dz. U. 2018 poz. 1286			
OEL TWA 5 mg/m³  Regulatory reference Norma Portuguesa NP 1796:2014  Slovenia - Occupational Exposure Limits  Local name mekinol (4-metoksifenol)  OEL TWA 5 mg/m³	Portugal - Occupational Exposure Limits				
Regulatory reference Norma Portuguesa NP 1796:2014  Slovenia - Occupational Exposure Limits  Local name mekinol (4-metoksifenol)  OEL TWA 5 mg/m³	Local name	4-Metoxifenol			
Slovenia - Occupational Exposure Limits  Local name mekinol (4-metoksifenol)  OEL TWA 5 mg/m³	OEL TWA	5 mg/m³			
Local name mekinol (4-metoksifenol)  OEL TWA 5 mg/m³	Regulatory reference	Norma Portuguesa NP 1796:2014			
OEL TWA 5 mg/m³	Slovenia - Occupational Exposure Limits				
	Local name	mekinol (4-metoksifenol)			
Regulatory reference Uradni list RS, št. 72/2021 z dne 11.5.2021	OEL TWA	5 mg/m³			
	Regulatory reference	Uradni list RS, št. 72/2021 z dne 11.5.2021			

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

HYDROQUINONE MONOMETHYL ETHER (150	1-76-5)			
Spain - Occupational Exposure Limits				
Local name	4-Metoxifenol			
VLA-ED (OEL TWA) [1]	5 mg/m³			
Remark	Sen (Sensibilizante).			
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT			
Iceland - Occupational Exposure Limits				
Local name	4-Metoxýfenól (4-hýdroxýanisól)			
OEL TWA	5 mg/m³			
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)			
Norway - Occupational Exposure Limits				
Local name	4-metoksyfenol			
Grenseverdi (OEL TWA) [1]	5 mg/m³			
Regulatory reference	FOR-2021-06-28-2248			
CUMENE HYDROPEROXIDE (80-15-9)				
Latvia - Occupational Exposure Limits				
Local name	2-Fenil-2-propilhidroperoksīds (Kumolhidroperoksīds, kumola hidroperoksīds, kumilhidroperoksīds, izopropilbenzola hidroperoksīds, α α dimetilbenzilhidroperoksīds)			
OEL TWA	1 mg/m³			
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)			
Lithuania - Occupational Exposure Limits				
Local name	Kumoleno (izopropilbenzeno) hidroperoksidas			
IPRV (OEL TWA)	1 mg/m³			
Remark	O (medžiaga į organizmą gali prasiskverbti pro nepažeistą odą)			
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)			
Switzerland - Occupational Exposure Limits				
Local name	Hydroperoxyde de $\alpha$ , $\alpha$ -diméthylbenzyle / $\alpha$ , $\alpha$ -Dimethylbenzylhydroperoxid [Cumolhydroperoxid]			
Remark	OSHA			
Regulatory reference	www.suva.ch, 28.03.2022			

### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

HYDROQUINONE MONOMETHYL ETHER (150-76-5)		
DNEL/DMEL (Workers)		
Acute - systemic effects, inhalation 10 mg/m³		
Long-term - systemic effects, inhalation	3 mg/m³	

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

- according to the NEZHOTT regulation (20) 1007/2000 amonada	, ,		
HYDROQUINONE MONOMETHYL ETHER (150	7-76-5)		
PNEC (Water)			
PNEC aqua (freshwater)	0.0136 mg/l		
PNEC aqua (marine water)	0.00136 mg/l		
PNEC aqua (intermittent, freshwater)	0.03 mg/l		
PNEC aqua (intermittent, marine water)	0.003 mg/l		
PNEC (Sediment)			
PNEC sediment (freshwater)	0.125 mg/kg dwt		
PNEC sediment (marine water)	0.0125 mg/kg dwt		
PNEC (Soil)			
PNEC soil	0.017 mg/kg dwt		
PNEC (STP)			
PNEC sewage treatment plant	10 mg/l		
1,1'-(METHYLENEDI-P-PHENYLENE) BISMALE	EIMIDE (13676-54-5)		
PNEC (Water)			
PNEC aqua (freshwater)	0.4 μg/l		
PNEC aqua (marine water)	0.04 μg/l		
PNEC aqua (intermittent, freshwater)	0.994 μg/l		
PNEC aqua (intermittent, marine water)	0.994 μg/l		
PNEC (Sediment)			
PNEC sediment (freshwater)	0.041 mg/kg dwt		
PNEC sediment (marine water)	0.0041 mg/kg dwt		
PNEC (Soil)			
PNEC soil	8.05 µg/kg dw		
PNEC (STP)			
PNEC sewage treatment plant	3 mg/l		
2,2'(4-METHYLPHENYLIMINO)DIETHANOL (30	)77-12-1)		
DNEL/DMEL (Workers)			
Long-term - systemic effects, dermal	0.47 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	3.29 mg/m³		
DNEL/DMEL (General population)			
Long-term - systemic effects,oral	0.16 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	0.58 mg/m³		
Long-term - systemic effects, dermal	0.17 mg/kg bodyweight/day		
PNEC (Water)			
PNEC aqua (freshwater)	0.0264 mg/l		
PNEC aqua (marine water)	0.00264 mg/l		
PNEC aqua (intermittent, freshwater)	0.26 mg/l		
PNEC aqua (intermittent, marine water)	0.0264 mg/l		
-			

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

2,2'(4-METHYLPHENYLIMINO)DIETHANOL (	2,2'(4-METHYLPHENYLIMINO)DIETHANOL (3077-12-1)			
PNEC (Sediment)				
PNEC sediment (freshwater)	0.1214 mg/kg dwt			
PNEC sediment (marine water)	0.0121 mg/kg dwt			
PNEC (Soil)				
PNEC soil	0.0088 mg/kg dwt			
PNEC (STP)				
PNEC sewage treatment plant	10 mg/l			
CUMENE HYDROPEROXIDE (80-15-9)				
DNEL/DMEL (Workers)				
Long-term - systemic effects, inhalation	6 mg/m³			
PNEC (Water)				
PNEC aqua (freshwater)	0.0031 mg/l			
PNEC aqua (marine water)	0.00031 mg/l			
PNEC aqua (intermittent, freshwater)	0.031 mg/l			
PNEC (Sediment)				
PNEC sediment (freshwater)	0.023 mg/kg dwt			
PNEC sediment (marine water)	0.0023 mg/kg dwt			
PNEC (Soil)				
PNEC soil	0.0029 mg/kg dwt			
PNEC (STP)				
PNEC sewage treatment plant	0.35 mg/l			

### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

### Personal protective equipment symbol(s):







#### 8.2.2.1. Eye and face protection

### Eye protection:

Safety glasses

Eye protection					
Туре	Field of application	Characteristics	Standard		
Safety glasses		With side shields	EN 166		

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### 8.2.2.2. Skin protection

#### Skin and body protection:

Wear suitable protective clothing

Skin and body protection	
Туре	Standard
Protective clothing	EN 14605

#### Hand protection:

Protective gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)		≥0.4 mm		EN ISO 374

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Respiratory protection			
Device	Filter type	Condition	Standard
Full face mask	Filter A1/B1, Type A - High-boiling (>65 °C) organic compounds		EN 14387

### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### **Environmental exposure controls:**

Avoid release to the environment.

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Green.

Odour : Characteristic odour. Odour threshold : Not available Melting point : No data available. Freezing point : Not available Boiling point : Not available Flammability : Not applicable Explosive limits : Not available Lower explosion limit : Not available : Not available Upper explosion limit : > 93 °C Flash point

Auto-ignition temperature : No data available.

Decomposition temperature : Not available
pH : Not applicable.

Viscosity, kinematic : Not available

Viscosity, dynamic : 5000 – 12000 mPa.s at 25°C

Solubility : Not available
Partition coefficient n-octanol/water (Log Kow) : Not available
Vapour pressure : Not available
Vapour pressure at 50 °C : Not available

9/16/2022 (Revision date) EN (English) 9/18

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Density : Not available Relative density : 1.05

Relative vapour density at 20 °C : No data available. Particle characteristics : Not applicable

#### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

### 9.2.2. Other safety characteristics

No additional information available

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

HYDROQUINONE MONOMETHYL ETHER (150-76-5)		
LD50 oral rat > 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline: Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 toxic Class Method)		
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: other:OECD No 423 Acute Oral Toxicity – Acute Toxic Class Method	
1,1'-(METHYLENEDI-P-PHENYLENE) BISMALEIMIDE (13676-54-5)		
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EU Method B.1 tris	

LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method), Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity), Guideline: other:
LC50 Inhalation - Rat	0.515 – 1 mg/l air Animal: rat, Guideline: OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class Method)

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

N,N-DIMETHYL-P-TOLUIDINE (99-97-8)		
	1050 mg/kg had weight Animal, ret Cuideline, OFCD Cuideline 401 (Acute Oral Tavicity)	
LD50 oral rat	1650 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)	
LD50 oral	139 mg/kg bodyweight Animal: mouse, Guideline: other:	
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:	
LC50 Inhalation - Rat	1.4 mg/l air Animal: rat, Guideline: other:	
2,2'(4-METHYLPHENYLIMINO)DIETHANOL (	3077-12-1)	
LD50 oral rat	959 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity), Guideline: other:	
CUMENE HYDROPEROXIDE (80-15-9)		
LC50 Inhalation - Rat [ppm]	220 ppm Animal: rat, Animal sex: male	
Skin corrosion/irritation	Not classified pH: Not applicable.	
N,N-DIMETHYL-P-TOLUIDINE (99-97-8)		
рН	7.44 Temp.: 25 °C Concentration: 1 vol%	
Serious eye damage/irritation	Causes serious eye irritation. pH: Not applicable.	
N,N-DIMETHYL-P-TOLUIDINE (99-97-8)		
рН	7.44 Temp.: 25 °C Concentration: 1 vol%	
Respiratory or skin sensitisation	: May cause an allergic skin reaction.	
Germ cell mutagenicity Carcinogenicity	: Not classified : Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: May cause respiratory irritation.	
1-ACETYL-2-PHENYLHYDRAZINE (114-83-0)		
STOT-single exposure	May cause respiratory irritation.	
STOT-repeated exposure	: Not classified	
HYDROQUINONE MONOMETHYL ETHER (1	50-76-5)	
LOAEL (oral, rat, 90 days)	300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:EPA OPPTS 870.3650 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)	
NOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:EPA OPPTS 870.3650 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)	
1,1'-(METHYLENEDI-P-PHENYLENE) BISMA	LEIMIDE (13676-54-5)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)	
N,N-DIMETHYL-P-TOLUIDINE (99-97-8)		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

2,2'(4-METHYLPHENYLIMINO)DIETHANOL (3077-12-1)		
NOAEL (oral, rat, 90 days)  100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 2 Day Oral Toxicity Study in Rodents), Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral)), Guideline: other:		
CUMENE HYDROPEROXIDE (80-15-9)		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard : Not classified		
N,N-DIMETHYL-P-TOLUIDINE (99-97-8)		
Viscosity, kinematic	16.364 mm²/s	

### 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

### 11.2.2. Other information

Potential adverse human health effects and

symptoms

: No data available

### **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term : Not classified

(acute)

Hazardous to the aquatic environment, long-term : Toxic to aquatic life with long lasting effects.

(chronic)

Not rapidly degradable

Not rapidly degradable		
HYDROQUINONE MONOMETHYL ETHER (150-76-5)		
LC50 - Fish [1]	28.5 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)	
EC50 - Crustacea [1]	3 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	54.7 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
EC50 72h - Algae [2]	19 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
LOEC (chronic)	> 1.45 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic) 0.68 mg/l Test organisms (species): Daphnia magna Duration: '21 d'		
1,1'-(METHYLENEDI-P-PHENYLENE) BISMAL	EIMIDE (13676-54-5)	
LC50 - Fish [1]	> 145 μg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)	
EC50 - Crustacea [1]	> 99.4 µg/l Test organisms (species): Daphnia magna	
N,N-DIMETHYL-P-TOLUIDINE (99-97-8)		
250 - Fish [1] 46 mg/l Test organisms (species): Pimephales promelas		
EC50 72h - Algae [1]	2437002 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
2,2'(4-METHYLPHENYLIMINO)DIETHANOL (3077-12-1)		
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Cyprinus carpio	

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

2,2'(4-METHYLPHENYLIMINO)DIETHANOL (3077-12-1)	
EC50 - Crustacea [1]	48 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
CUMENE HYDROPEROXIDE (80-15-9)	
LC50 - Fish [1]	3.9 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	18.84 mg/l Test organisms (species): Daphnia magna

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

European List of Waste (LoW) code : 08 04 09\* - waste adhesives and sealants containing organic solvents or other dangerous

substances

### **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID n	umber			
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shippin	g name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Environmentally hazardous substance, liquid, n.o.s.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

ADR	IMDG	IATA	ADN	RID
Transport document descr	iption			
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s., 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
14.3. Transport hazard	class(es)			
9	9	9	9	9
	**************************************		**************************************	
14.4. Packing group				
111	III	III	III	III
14.5. Environmental haz	ards			
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information	n available		ı	

#### 14.6. Special precautions for user

#### **Overland transport**

Classification code (ADR) : M6

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5I Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions : TP1, TP29

(ADR)

Tank code (ADR) : LGBV
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Loading, unloading : CV13

and handling (ADR)

Hazard identification number (Kemler No.) : 90

Orange plates :

90 3082

Tunnel restriction code (ADR) : EAC code : •3Z

Transport by sea

Special provisions (IMDG) : 274, 335, 969

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : LP01, P001
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1, TP29
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
Stowage category (IMDG) : A

#### Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L

Special provisions (IATA) : A97, A158, A197, A215

ERG code (IATA) : 9L

#### Inland waterway transport

Classification code (ADN) : M6

Special provisions (ADN) : 274, 335, 375, 601

Limited quantities (ADN): 5 LExcepted quantities (ADN): E1Carriage permitted (ADN): TEquipment required (ADN): PPNumber of blue cones/lights (ADN): 0

#### Rail transport

Classification code (RID) : M6

Special provisions (RID) : 274, 335, 375, 601

Limited quantities (RID) : 5L Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions : TP1, TP29

(RID)

Tank codes for RID tanks (RID) : LGBV

Transport category (RID) : 3

Special provisions for carriage – Packages (RID) : W12

Special provisions for carriage - Loading, unloading : CW13, CW31

and handling (RID)

Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

#### **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

### **REACH Annex XVII (Restriction List)**

EU restriction list (REACH Annex XVII)	
Reference code Applicable on	
3(a)	CUMENE HYDROPEROXIDE
3(b) Lockfast R20 ; N,N-DIMETHYL-P-TOLUIDINE ; CUMENE HYDROPEROXIDE	

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

EU restriction list (REACH Annex XVII)	
Reference code Applicable on	
3(c) Lockfast R20 ; N,N-DIMETHYL-P-TOLUIDINE ; CUMENE HYDROPEROXIDE	

#### **REACH Annex XIV (Authorisation List)**

Contains no REACH Annex XIV substances

#### **REACH Candidate List (SVHC)**

Contains no substance on the REACH candidate list

#### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

#### **France**

Occupational diseases	
Code	Description
RG 65	Eczematiform lesions of allergic mechanism

#### Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed SZW-lijst van mutagene stoffen : None of the components are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed SZW-lijst van reprotoxische stoffen – : None of the components are listed

Vruchtbaarheid SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

, ,

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with

the product

**Switzerland** 

**Denmark** 

Storage class (LK) : LK 10/12 - Liquids

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

9/16/2022 (Revision date) EN (English) 16/18

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

# **SECTION 16: Other information**

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:		
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
EUH208	Contains HYDROQUINONE MONOMETHYL ETHER(150-76-5), 1,1'-(METHYLENEDI-P-PHENYLENE) BISMALEIMIDE(13676-54-5), 2,2'(4-METHYLPHENYLIMINO)DIETHANOL(3077-12-1), 1-ACETYL-2-PHENYLHYDRAZINE(114-83-0). May produce an allergic reaction.	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H242	Heating may cause a fire.	
H301	Toxic if swallowed.	
H302	Harmful if swallowed.	
H311	Toxic in contact with skin.	
H312	Harmful in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H331	Toxic if inhaled.	
H335	May cause respiratory irritation.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
Org. Perox. E	Organic Peroxides, Type E	
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.